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(51) 国際特許分類: G11B 27/031, 15/087, 20/10, 27/19, H04N 5/91 (71) 出願人(米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) [JP/JP]; 〒5718501 大阪府門真市大字門真1006番地 Osaka (JP).

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(25) 国際出願の言語: 日本語 (74) 代理人: 特許業務法人池内・佐藤アンドパートナーズ (IKEUCHI SATO & PARTNER PATENT ATTORNEYS); 〒5306026 大阪府大阪市北区天満橋1丁目8番30号OAPタワー26階 Osaka (JP).

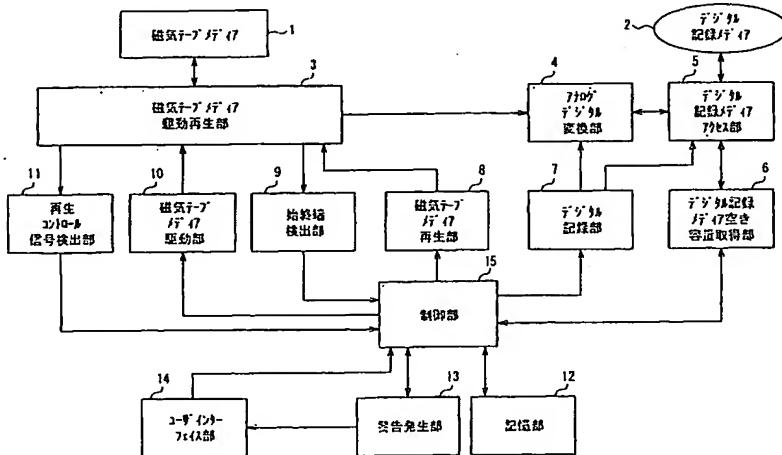
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(54) Title: INFORMATION RECORDING/REPRODUCING DEVICE

(54) 発明の名称: 情報記録再生装置



- 1... MAGNETIC TAPE MEDIUM
- 3... MAGNETIC TAPE MEDIUM DRIVE REPRODUCING UNIT
- 4... ANALOG/DIGITAL CONVERSION UNIT
- 2... DIGITAL RECORDING MEDIUM
- 5... DIGITAL RECORDING MEDIUM ACCESS UNIT
- 6... DIGITAL RECORDING MEDIUM EMPTY CAPACITY ACQUISITION UNIT
- 7... DIGITAL RECORDING UNIT
- 8... MAGNETIC TAPE MEDIUM REPRODUCING UNIT
- 9... STARTING/TERMINATING END DETECTION UNIT
- 10... MAGNETIC TAPE MEDIUM DRIVE UNIT
- 11... REPRODUCTION CONTROL SIGNAL DETECTION UNIT
- 15... CONTROL UNIT
- 14... USER INTERFACE UNIT
- 13... ALARM GENERATION UNIT
- 12... STORAGE UNIT

(57) Abstract: There is provided an information recording/reproducing device capable of utilizing a control signal recorded together with a video/audio signal on an analog recording medium, thereby dubbing the video/audio signal onto a digital recording medium in the possible shortest time. The information recording/reproducing device includes: a control signal detection unit for detecting a control signal recorded on an analog recording medium; a control unit; and the like. When the control unit receives a dubbing instruction, it starts dubbing operation by causing a recording unit to record the video/audio signal reproduced by a reproducing unit, onto a digital recording medium. During the dubbing operation, if a non-recording area having no control signal is detected on the analog recording medium, the recording unit is instructed to temporarily stop the recording onto the digital recording medium.

(57) 要約: アナログ記録媒体に映像音声信号と共に記録されているコントロール信号を利用することにより、前記映像音声信号をデジタル記録媒体へできるかぎり短い時間でダビングできる情報記録再生装置である。情報記録再生装置は、アナログ記録媒体に記録されたコントロール信号

を検出するコントロール信号検出部と、制御部などを備えている。制御部は、ダビング命令が入力されると、再生部により再生された映像音声信号を記録部によりデジタル記録媒体

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(81) 指定国(表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) 指定国(表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE, BG,

CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

添付公開書類:

- 國際調査報告書
- 請求の範囲の補正の期限前の公開であり、補正書受領の際には再公開される。

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012905

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' G11B27/031, G11B15/087, G11B20/10, G11B27/19, H04N5/91

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' G11B27/00-27/06, G11B15/087, G11B20/10, G11B27/19, H04N5/91

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-76736 A (Sony Corp.), 14 March, 2000 (14.03.00), Par. Nos. [0009] to [0030]; Fig. 2 (Family: none)	1-2
Y	JP 8-17137 A (Sanyo Electric Co., Ltd.), 19 January, 1996 (19.01.96), Par. Nos. [0120] to [0147], [0212]; Fig. 2 (Family: none)	3-6
Y	JP 2001-45421 A (Funai Electric Co., Ltd.), 16 February, 2001 (16.02.01), Par. Nos. [0027] to [0029]; Fig. 6 (Family: none)	4-5

 Further documents are listed in the continuation of Box C. See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search
17 January, 2005 (17.01.05)Date of mailing of the international search report
01 February, 2005 (01.02.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-31076 A (Olympus Optical Co., Ltd.), 02 February, 1996 (02.02.96), Par. Nos. [0037] to [0040]; Fig. 2 & US 5610893 A	5
Y	JP 60-28053 A (Olympus Optical Co., Ltd.), 13 February, 1985 (13.02.85), Page 4, upper left column, line 11 to lower right column, line 10 & US 4628370 A	5
A	JP 2001-28182 A (Mitsubishi Electric Corp.), 30 January, 2001 (30.01.01), Full text; all drawings (Family: none)	1-6
A	JP 11-126430 A (Sanyo Electric Co., Ltd.), 11 May, 1999 (11.05.99), Full text; all drawings (Family: none)	1-6